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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/707,274	12/02/2003	KUO-CHIANG CHEN	20.2894	1273
23718 7590 SCHLUMBERGE	03/19/2007 R OILFIELD SERVIC	EXAMINER		
200 GILLINGHAM LANE			AURORA, REENA	
MD 200-9 SUGAR LAND, T	X 77478	ART UNIT	PAPER NUMBER	
·			2862	
SHORTENED STATUTORY PE	RIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MONTH	IS	03/19/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary		Application No. Applicant(s)					
		10/707,274	CHEN ET AL.				
		Examiner	Art Unit				
	·	Reena Aurora	2862				
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet	with the correspondence a	ddress			
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUING (a). In no event, however, may will apply and will expire SIX (6) May cause the application to become	NICATION. a reply be timely filed ONTHS from the mailing date of this of ABANDONED (35 U.S.C. § 133).	•			
Status	•						
1)	Responsive to communication(s) filed on amen	ndment received on 01/	0 <i>4/</i> 07				
2a)⊠	This action is FINAL . 2b) ☐ This action is non-final.						
,	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
٠/١ــــا	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims						
<u> </u>	•	nnlication		•			
4)△	4)⊠ Claim(s) <u>31 - 37 and 61</u> is/are pending in the application.						
5)	4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed.						
	6)⊠ Claim(s) <u>15/are allowed.</u> 6)⊠ Claim(s) <u>31 - 37 and 61</u> is/are rejected.						
· · · <u> </u>	Claim(s) is/are objected to.						
•	Claim(s) are subject to restriction and/or	election requirement.	1				
•		·					
	ion Papers						
,	The specification is objected to by the Examine						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)	The oath or declaration is objected to by the Ex		•				
Priority (under 35 U.S.C. § 119						
12)	Acknowledgment is made of a claim for foreign All b) Some * c) None of:	priority under 35 U.S.C	. § 119(a)-(d) or (f).				
,	1. Certified copies of the priority documents have been received.						
•	2. Certified copies of the priority documents have been received in Application No						
	3. Copies of the certified copies of the priority documents have been received in this National Stage						
	application from the International Bureau						
* (See the attached detailed Office action for a list	of the certified copies n	ot received.				
Attachmer	nt(s)						
	ce of References Cited (PTO-892)	4) Intervie	w Summary (PTO-413)				
	ce of Draftsperson's Patent Drawing Review (PTO-948)		lo(s)/Mail Date of Informal Patent Application				
· —	mation Disclosure Statement(s) (PTO/SB/08) er No(s)/Mail Date	6) Other: _	• •				

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DETAILED ACTION

This communication is in response to amendment received on 01/04/07.

Applicant has added new claim 61.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 31 – 37 and 61 are rejected under 35 U.S.C. 102(e) as being anticipated by Chen et al. (6,933,726).

The applied reference has a common inventor with the instant application.

Based upon the earlier effective U.S. filling date of the reference, it constitutes prior art under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 102(e) might be overcome either by a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not the invention "by another," or by an appropriate showing under 37 CFR 1.131.

As to claims 31 - 37, Chen et al. (hereinafter Chen discloses) an apparatus and method for reducing borehole current effects comprising a sleeve (11) having an outer

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surface and an inner surface, the sleeve (11) adapted to be disposed over the antenna array (15, 16, 17) such that the outer surface is directed outward from the mandrel (51); and an electrode (12) disposed within a hole formed through the sleeve (11) between the outer surface and the inner surface and adapted to conductively connect to the mandrel (51), the electrode having an external section (51a) that is larger than a base section (not labeled), the external section (51a) positioned proximate the outer surface and the base section disposed within the hole proximate the inner surface (Note fig. 2, 3 and 8).

As to claim 61, Chen discloses that the external section (52a) includes an exposed outside surface area positioned relative to the sleeve (12) and the hole for exposure to the borehole environment, and wherein a surface area of the exposed outside surface (52a) is substantially larger than a cross-sectional area of the base section (Note fig. 8).

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

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the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Response to Arguments

Applicant's arguments filed on 01/04/07 have been fully considered but they are not persuasive. Applicant's argument that any "hole formed through the sleeve" terminates at the interface 61. However the claim limitation states, "a hole formed through the sleeve between the outer surface and the inner surface" and Fig. 8 of Chen clearly discloses a hole formed through the sleeve between the outer surface and the inner surface.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Reena Aurora whose telephone number is 571-272-263. The examiner can normally be reached on Monday - Friday, 7:00 - 3:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, E. Lefkowitz can be reached on 571-272-2180. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Reena Aurora

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TECHNOLOGY CENTER 2800

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